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0000085371

Director, Safety Division

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RECEIVED ARIZONA CORPORATION COMMISSION

2008 MAY 22 A 9 28

AZ CORP COMMISSION
DOCKET CONTROL

Memorandum

To: THE COMMISSION

From: Brian H. Lehman, Supervisor Railroad Safety

Date: May 21, 2008

Re: Explanatory Supplement for the 2008 Grade Crossing Array
Docket No. RR-00000E-08-0021

2008 ACC Array Projects

Alma School Road

Alma School Road (#741-650B, R.R. Milepost 920.5) is a six lane, north – south arterial roadway which crosses the Union Pacific's tracks in the City of Mesa (see attached map). Currently, there are median and curb-side automatic gate arms, flashing light and bells. The proposed upgrades for cantilevers and 12 inch LED flashing lights are a result of deficient flashing light coverage for all 6 lanes of traffic. Due to the roadway speed (posted 45 mph) the proposed cantilevers will offer increased visibility of the warning devices as motorists approach the crossing. The proposed cantilevers will be placed in the roadway medians in order to provide maximum lane coverage. The estimated cost for this project is \$350,000.00.

Dobson Road

Dobson Road (741-649G, R.R. Milepost 919.40) is a six lane, north – south arterial roadway which crosses the Union Pacific's tracks in the City of Mesa (see attached map). Currently, there are curb-side automatic gate arms, flashing lights and bells. The proposed upgrades for cantilevers and 12 inch LED flashing lights are a result of deficient flashing light coverage for all 6 lanes of traffic. Due to the roadway speed (posted 40 mph) the proposed cantilevers will offer increased visibility of the warning devices as motorists approach the crossing. The proposed cantilevers will be placed in the roadway medians in order to provide maximum lane coverage. The estimated cost for this project is \$350,000.00.

Arizona Corporation Commission
DOCKETED

MAY 22 2008

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Broadway Road

Broadway Road (741-565L, R.R. Milepost 915.83) is a six lane, east-west arterial roadway which crosses the Union Pacific's tracks in the City of Tempe (see attached map). Currently, there are curb-side automatic gate arms, cantilevers with flashing lights and bells. The proposed upgrades for longer cantilevers and 12 inch LED flashing lights are a result of deficient flashing light coverage for all 6 lanes of traffic. Due to the roadway speed (posted 40 mph) the proposed cantilevers will offer increased visibility of the warning devices as motorists approach the crossing. The proposed cantilevers will be placed at curb-side, which will provide maximum lane coverage. The estimated cost for this project is \$350,000.00.

35th Avenue

Thirty-Fifth Avenue (741-448R, Milepost 902.70) is a five lane (3 northbound and 2 southbound) roadway which crosses Union Pacific's tracks in the City of Phoenix (see attached map). Currently, there are curb-side automatic gate arms, cantilevers with flashing lights and bells. The proposed upgrades for longer cantilevers and 12 inch LED flashing lights are a result of deficient flashing light coverage for all 5 lanes of traffic. Due to the roadway speed (posted 40 mph) the proposed cantilevers will offer increased visibility of the warning devices as motorists approach the crossing. The proposed cantilevers will be placed at curb-side, which will provide maximum lane coverage. The estimated cost for this project is \$185,000.00.

107th Avenue

One Hundred Seventh Avenue (741-800G, R.R. Milepost 893.51) is a five lane (2 northbound and 3 southbound) roadway which crosses Union Pacific's tracks in the City of Avondale (see attached map). Maricopa County is the road authority at this crossing. Currently, there are curb-side automatic gate arms, flashing lights and bells. The proposed upgrades are for a cantilever with 12 inch LED flashing lights for southbound traffic. These proposed upgrades are a result of deficient flashing light coverage for the 3 southbound lanes of traffic. Due to the roadway speed (posted 35 mph) the proposed cantilevers will offer increased visibility of the warning devices as motorists approach the crossing. The proposed cantilever will be placed at curb-side, which will provide maximum lane coverage. The estimated cost for this project is \$185,000.00.

115th Avenue

One Hundred Fifteenth Avenue (741-799P, R.R. Milepost 892.55) is a five lane (2 northbound and 3 southbound) roadway that crosses Union Pacific's tracks in the City of Avondale (see attached map). The City of Avondale is the road authority at this crossing. Currently, there are curb-side automatic gate arms, flashing lights and bells. The proposed upgrades are for a cantilever with 12 inch LED flashing lights for southbound traffic. These proposed upgrades are a result of deficient flashing light coverage for the 3 southbound lanes of traffic. Due to the roadway speed (posted 35 mph) the proposed

cantilevers will offer increased visibility of the warning devices as motorists approach the crossing. The proposed cantilever will be placed at curb-side, which will provide maximum lane coverage. The estimated cost for this project is \$185,000.00.

Verde Ranch Road

Verde Ranch Road (025-327U, R.R. Milepost 27.95) is a two lane rural gravel road which crosses the BNSF tracks, approximately 30 miles south of Ash Fork. Yavapai County is the road authority at this crossing. Currently, there are passive devices (crossbucks) at the crossing. The proposed upgrades are for 12 inch LED flashing lights, automatic gates and bells. The proposed upgrades will offer considerably more protection for the motoring public. The estimated cost for this project is \$225,000.00.

Tripp Canyon Road

Tripp Canyon Road (742-266H, R.R. Milepost 1146.90) is a two lane asphalt road which crosses the Arizona Eastern Railway in the Town of Pima. The City of Pima is the road authority at this crossing. Currently, there are passive devices (crossbucks) at the crossing. The proposed upgrades are for 12 inch LED flashing lights, automatic gates, bells and a new timber surface. The proposed upgrades will offer considerably more protection for the motoring public. The estimated cost for this project is \$275,000.00.

Chandler Blvd.

Chandler Blvd. (741-671U, R.R. Milepost 929.08) is a six lane east-west arterial roadway which crosses the Union Pacific's tracks in the City of Chandler. This rail line is part of the Tempe Industrial Lead. The City of Chandler is the road authority at the crossing. Currently, there are curb-side and median automatic gates with flashing lights, bells and cantilevers with flashing lights.

The proposed upgrades for cantilevers and 12 inch LED flashing lights are a result of deficient flashing light coverage for all 6 lanes of traffic. Due to the roadway speed (posted 45 mph) the proposed longer cantilevers will offer increased visibility of the warning devices as motorists approach the crossing. The proposed cantilevers will be placed at the curb-side which will provide maximum lane coverage. The estimated cost for this project is \$350,000.00.



Eye alt 5199 ft

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Streaming 100%

Pointer 33°24'40.55" N 111°51'22.48" W elev 1231 ft



Pointer 33°24'38.49" N 111°52'25.74" W elev 1214 ft
Streaming 100%
Eye alt 7898 ft





West Madison Street

West Jackson Street

PHOENIX

35th AVENUE 741-448-R

West Harrison Street

South 33rd Avenue

West Lincoln Street

Google

Eye alt 3320 ft

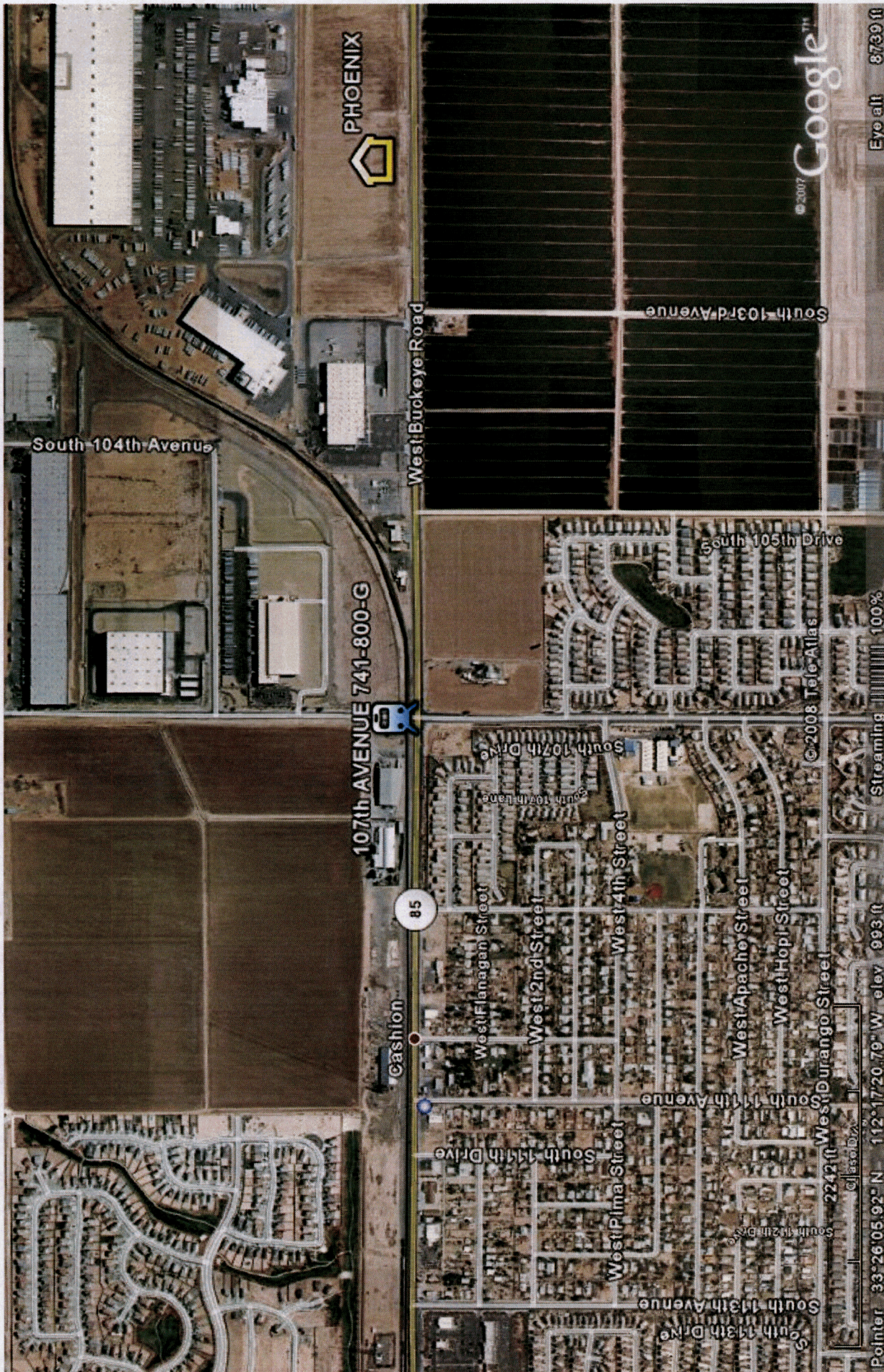
South 35th Avenue

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Streaming 100%

Pointer 33°26'38.82" N 112°08'03.68" W elev 1063 ft

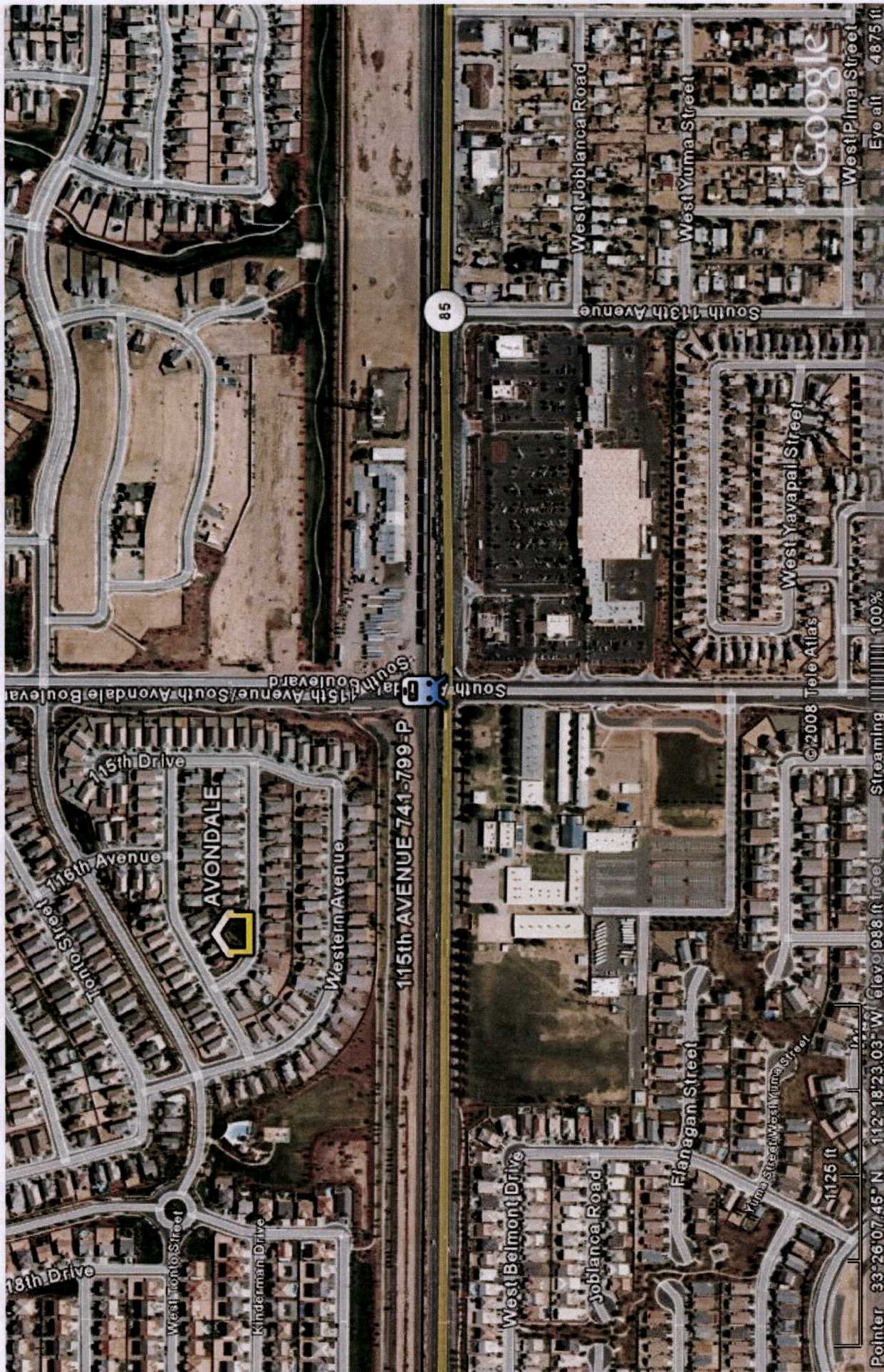
653 ft



Eye alt 8739 ft

Streaming 100%

Pointer 33°26'05.92" N 112°17'20.79" W elev 993 ft



85

Google

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Streaming 100%

Pointer 33°26'07.45" N 112°18'23.03" W Elev 988 ft tree

Eye alt 4875 ft

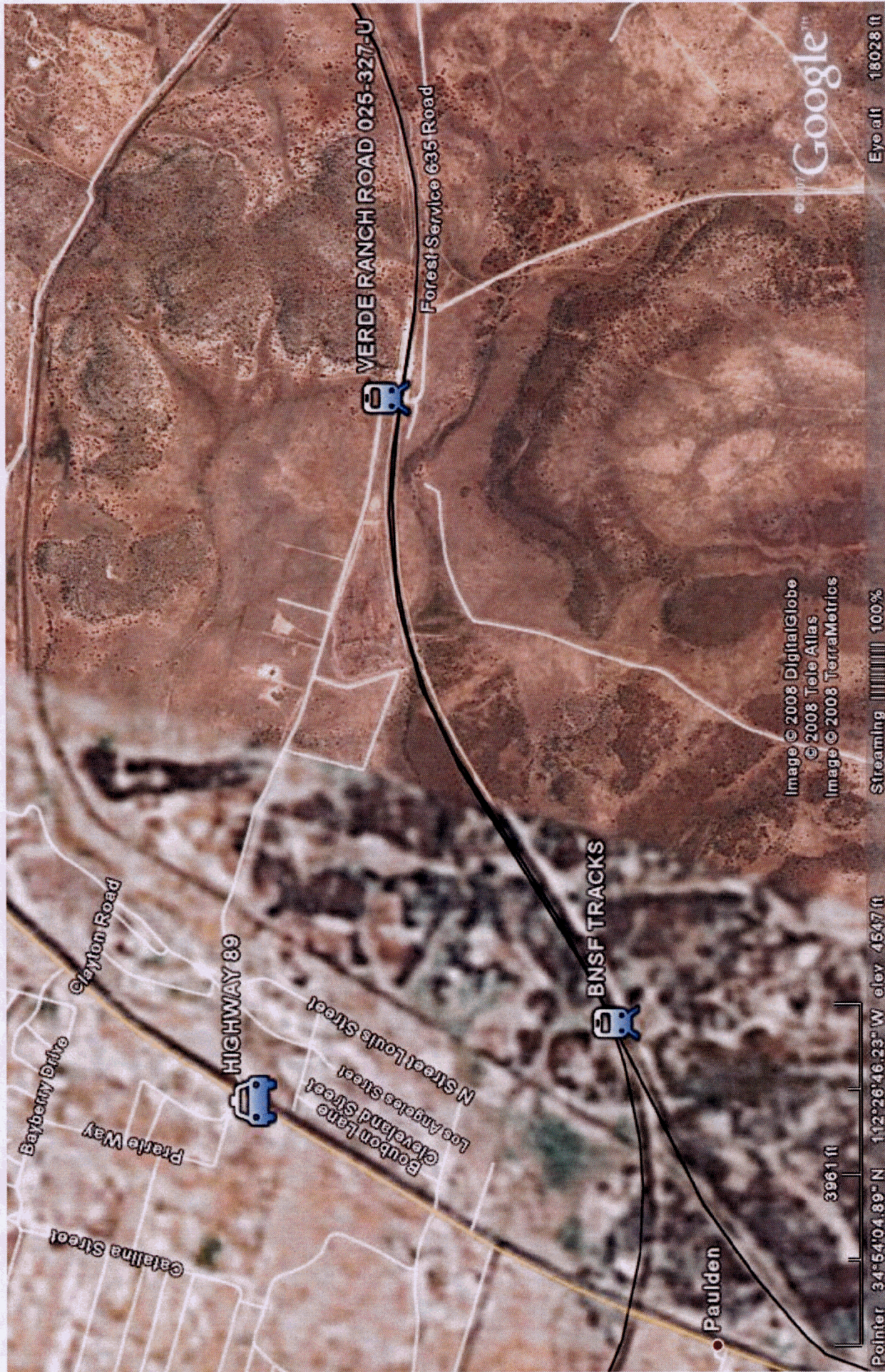


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Streaming 100%

Pointer 34°54'04.89" N 112°26'46.23" W elev 4547 ft

Eye alt 18028 ft



North 100 West

70

TOWN OF PIMA



South 300 West

1st South Street/West 100 South

North 400 West

TRIPP CANYON ROAD 742-266-H

West Center Street

HIGHWAY 70

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Streaming 100%

Pointer 32°53'54.43" N 109°50'13.50" W elev 2851 ft

1219 ft

Eye alt 7105 ft

